

CLAIMS

What is claimed is:

1	1. A method for interfacing with a multi-level data structure comprising the steps
2	of:
3	selecting a concept object stored in the multi-level data structure;
4	displaying a first image representing the selected concept object;
5	displaying one or more second images generally above the first image, each second
6	image representing a parent concept object of the selected concept object;
7	displaying a first connector connecting each second image to the first image;
8	whenever the selected concept object has one or more child concept objects
9	displaying one or more third images generally below the first image, each third image
10	representing a child concept object of the selected concept object, and displaying a second
11	connector connecting each third image to the first image; and
12	whenever the selected concept object has one or more lateral concept objects
13	displaying one or more fourth images generally on one or both sides of the first image, each
14	fourth image representing a lateral concept object of the selected concept object, and
15	displaying a third connector connecting each fourth image to the first image.

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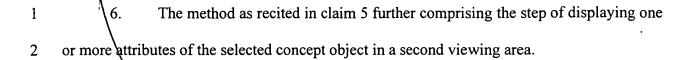
3.

1	2. The method as recited in claim 1 further comprising the steps of:
2	selecting a new concept object from either the selected concept object, the one or
3	more parent concept objects, the one or more children concept objects or the one or more
4	lateral concept objects;
5	displaying a fifth image representing the selected new concept object;
6	displaying one or more sixth images generally above the fifth image, each sixth image
7	representing a parent concept object of the selected new concept object;
8	displaying a fourth connector connecting each sixth image to the fifth image;
9	whenever the selected new concept object has one or more child concept objects,
10	displaying one or more seventh images generally below the fifth image, each seventh image
11	representing a child concept object of the selected new concept object, and displaying a fifth
12	connector connecting each seventh image to the fifth image; and
13	whenever the selected new concept object has one or more lateral concept objects,
14	displaying one or more eighth images generally on one or both sides of the fifth image, each
15	eighth image representing a lateral concept object of the selected new concept object, and
16	displaying a sixth connector connecting each eighth image to the fifth image.

images comprise text strings.

The method as recited in claim 1 wherein the first, second, third and fourth

- 4. The method as recited in claim 1 wherein the first image is highlighted.
- 5. The method as recited in claim 1 wherein the first, second, third and fourth images, and the first, second and third connectors are displayed within a first viewing area.



- 7. The method as recited in claim 5 further comprising the step of displaying one or more details of the selected concept object in a third viewing area.
- 1 8. The method as recited in claim 5 further comprising the step of displaying one 2 or more terms associated with the selected concept-object in a fourth viewing area.
- 9. The method as recited in claim 5 further comprising the step of displaying a work area for temporarily storing terms in a fifth viewing area.
- 1 10. The method as recited in claim 5 further comprising the steps of:
 2 selecting either a microglossary panel, a term facet panel, a relations facet panel or a
 3 term phrase editor panel; and
- 4 displaying the selected panel in a sixth viewing area.

			-		embodied			computer	readable	medium	for
interfa	cing wi	th a	multi-level	l data struc	ture compri	sing:					
	_										
	a code	seg	ment for se	lecting a c	concept obje	ct sto	ore	d in the mu	lti-level da	ata structu	re;

a code segment for displaying a first image representing the selected concept object;

a code segment for displaying one or more second images generally above the first image, each second image representing a parent concept object of the selected concept object;

a code segment for displaying a first connector connecting each second image to the first image;

a code segment for whenever the selected concept object has one or more child concept objects, displaying one or more third images generally below the first image, each third image representing a child concept object of the selected concept object, and displaying a second connector connecting each third image to the first image; and

a code segment for whenever the selected concept object has one or more lateral concept objects, displaying one or more fourth images generally on one or both sides of the first image, each fourth image representing a lateral concept object of the selected concept object, and displaying a third connector connecting each fourth image to the first image.



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1	12. The computer program as recited in claim 11 further comprising:
2	a code segment for selecting a new concept object from either the selected concept
3	object, the one or more parent concept objects, the one or more children concept objects or

the one or more lateral concept objects;

a code segment for displaying a fifth image representing the selected new concept object;

a code segment for displaying one or more sixth images generally above the fifth image, each sixth image representing a parent concept object of the selected new concept object;

a code segment for displaying a fourth connecting each sixth image to the fifth image;

a code segment for whenever the selected new concept object has one or more child concept objects, displaying one or more seventh images generally below the fifth image, each seventh image representing a child concept object of the selected new concept object, and displaying a fifth connector connecting each seventh image to the fifth image; and

a code segment for whenever the selected new concept object has one or more lateral concept objects, displaying one or more eighth images generally on one or both sides of the fifth image, each eighth image representing a lateral concept object of the selected new concept object, and displaying a sixth connector connecting each eighth image to the fifth image.

13. The computer program as recited in claim 1 wherein the first, second, third and fourth images comprise text strings.

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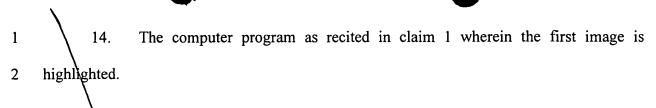
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- The computer program as recited in claim 1 wherein the first, second, third and fourth images, and the first, second and third connectors are displayed within a first viewing area.
- 16. The computer program as recited in claim 15 further comprising a code segment for displaying one or more attributes of the selected concept object in a second viewing area.
- 17. The computer program as recited in claim 15 further comprising a code segment for displaying one or more details of the selected concept object in a third viewing area.
- 18. The computer program as recited in claim 15 further comprising a code segment for displaying one or more terms associated with the selected concept object in a fourth viewing area.
- 19. The computer program as recited in claim 15 further comprising a code segment for displaying a work area for temporarily storing terms in a fifth viewing area.
 - 20. The computer program as recited in claim 15 further comprising:
- a code segment for selecting either a microglossary panel, a term facet panel, a relations facet panel or a term phrase editor panel; and
- a code segment for displaying the selected panel in a sixth viewing area.

first image, and

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1	21. A system for interfacing with a multi-level data structure comprising:
2	a computer;
3	a display communicably connected to the display;
4	a memory communicably connected to the computer for storing the multi-level data
5	structure;
6	a computer program resident on the computer for:
7	selecting a concept object stored in the multi-level data structure,
8	displaying a first image representing the selected concept object on the
9	display,
10	displaying one or more second images generally above the first image on the
11	display, each second image representing a parent concept object of the selected
12	concept object and displaying a first connector on the display connecting each second
13	image to the first image,
14	whenever the selected concept object has one or more child concept objects
15	displaying one or more third images on the display generally below the first image
16	each third image representing a child concept object of the selected concept objec
17	and displaying a second connector on the display connecting each third image to the

whenever the selected concept object has one or more lateral concept objects, displaying one or more fourth images on the display generally on one or both sides of the first image, each fourth image representing a lateral concept object of the selected concept object and displaying a third connector on the display connecting each fourth image to the first image.

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1	22. The system as recited in claim 21 wherein the computer program:
2	selects a new concept object from either the selected concept object, the one or more
3	parent concept objects, the one or more children concept objects or the one or more lateral
4	concept objects;
5	displays a fifth image on the display representing the selected new concept object;

displays a fifth image on the display representing the selected new concept object;

displays one or more sixth images on the display generally above the fifth image,
each sixth image representing a parent concept object of the selected new concept object;

displays a fourth connector on the Hisplay connecting each sixth image to the fifth

displays a fourth connector on the display connecting each sixth image to the fifth image;

whenever the selected new concept object-has one or more child concept objects, displays one or more seventh images on the display generally below the fifth image, each seventh image representing a child concept object of the selected new concept object, and displays a fifth connector on the display connecting each seventh image to the fifth image; and

whenever the selected new concept object has one or more lateral concept objects, displays one or more eighth images on the display generally on one or both sides of the fifth image, each eighth image representing a lateral concept object of the selected new concept object, and displays a sixth connector on the display connecting each eighth image to the fifth image.

- 23. The system as recited in claim 21 wherein the first, second, third and fourth images comprise text strings.
 - 24. The system as recited in claim 21 wherein the first image is highlighted.

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- 1 25. The system as recited in claim 21 wherein the first, second, third and fourth 2 images and the first, second and third connectors are displayed within a first viewing area.
- 1 26. The system as recited in claim 25 wherein the computer program displays one 2 or more attributes of the selected concept object in a second viewing area.
- 1 27. The system as recited in claim 25 wherein the computer program displays one 2 or more details of the selected concept object in a third viewing area.
- The system as recited in claim 25 wherein the computer program displays one or more terms associated with the selected concept object in a fourth viewing area.
 - 29. The system as recited in-claim 25 wherein the computer program displays a work area for temporarily storing terms in a fifth viewing area.
- 30. The system as recited in claim 25 wherein the computer program:

 selects either a microglossary panel, a term facet panel, a relations facet panel or a

 term phrase editor panel; and
- 4 displays the selected panel in a sixth viewing area.